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Sent by Mike Meinz DFG.
This outlines a study to be
conducted on the fish gabien
constructed by Synd at llaquerie
Coint. The 1914 agreement between
DFG & SYND provides for monitaring the effectiveness of the
gabion to determine if modifiegabion are necessary. Also
encluded we report on work already sy

South Yuba/Brophy Irrigation Diversion Study Draft Study Plan 1988

I. Purposes:

- A. Determine percent survival of migrating juvenile salmon encountering the Grave/Gibbon Screen Complex (GGSC) at the intake of the South Yuba/Brophy Irrigation Diversion, Yuba River.
- B. Determine if bypass flows are 10 percent of the diverted quantity.

II. Methods:

- A. Survival of migrating juvenile salmon
 - Release measured (FL) and marked juvenile salmon in the intake channel of GGSC.
 - o Treatments:

Daylight Release - Dorsal caudal clip Night Release - Ventral caudal clip

- o 200-400 salmon trickle released/treatment.
- o Replicates 3 day/night releases.
- o Replicate Frequency 3 to 4 day intervals.
- Marks rotated between day and night releases to eliminate marked bias.
- o Controls:
 - a) Handling control for each treatment 25 salmon held in live car for duration of treatment.
 - b) Electrofish upstream of intake barrier after salmon released.
- o Source of Juvenile Salmon Trap at Hallwood Cordua Canal.
- Recovery of Marked Salmon
 - o Trap in Bypass: Incline plain trap or fyke checked every two hours.

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- Control: 25 adipose marked salmon released directly into trap during treatment to check trap efficiency.
- o Electrofish:
 - a. Behind GGSC during each treatment.
 - b. In front of GGSC and in bypass canal at the completion of each treatment.
 - c. Examine predator stomachs.
- o Measure (FL) recovered marked salmon.
- B. Determining of Adequate Bypass Flows
 - 1. Measure Intake Plows
 - 2. Measure Bypass Flows

III. Analysis

- A. Survival of Migrating Juvenile Salmon
 - 1. Calculate percent lost.
 - Established significance of loses with paired variate analysis comparing treatment release to recaptures i.e. Chi-Square or Students T.
 - 3. Findings adjusted based on controls.
- B. Determination of Adequate Bypass Plows .
 - Calculate percent bypassed.
 - Compare with required 10 percent as defined in Exhibit D, Stipulated Judgment No. 36092, Superior Court of California, County of Yuba.

IV. Equipment:

- A. Survival of Migrating Juvenile Salmon
 - 1. Release of Measured and Marked Salmon
 - o 100 feet of 1/4 inch hardware cloth

- o Metal fence posts 21
- o Fin clippers
- o Anesthetic
- o Two live cars for controls
- Cotton gloves
- o Lantern/fuel or batteries
- o Jet boat (Electrofishing) USFWS
- o Tools
- o Clipboards/pencils
- o Data forms
- o Waders
- o Life jackets
- o Plastic garbage cans to transport salmon
- o O₂ Kopperdahl
- o Dip nets
- Measuring boards
- o Slødge hammer
- o Wire to attach hardware cloth to posts
- o Wet suits?
- 2. Recovery of Marked Salmon
 - o Inclined Plain Traps (3) or fyke with 50 foot 1/4" hardware cloth leads
 - o If fyke used -- 20 metal fence posts
 - o Anesthetic
 - o Dip nets

- o Clipboards/forms
- o Measuring boards
- o Electrofishing equipment
 - a. Hiscox's boat for behind GGSC
 - b. USFWS boat for upstream of GGSC
 - c. Back Pack Shocker for bypass canal
- o Cotton gloves
- o Lantern fuel/batteries
- o Tools
- o Life jackets
- o Rubber gloves electrifies
- o Sledge hammer
- o Wire
- o Knife
- o Wet suits
- B. Determining Adequate Bypass Plows
 - o Waders
 - o Top setting rod
 - o Note paper/pencils
 - o 100 foot measuring tape
 - O Marsh McBriney flow meter (Bill Snider or USFWS)
- V. Available Personnel
 - A. Department of Fish and Game

Debbie Konnoff Debbie's seasonal Bill Somer ?
Phil Hansen ?
John Hiscox (days)
Carolyn Doody (Seasonal) MWFSS
Kellie Berry (Seasonal) FSS

B. U.S. Fish and Wildlife Service

Rich Dehaven - 4 days minimum (916) 978-4613

C. State Water Resources Control Board

Sid Taylor - one day (916) 324-5737

Draft prepared by: Mike Meinz
Associate Fisheries Biologist
Department of Fish and Game
(916) 355-7030

Attachment

R. Dehaven, USFWS
Taylor, BWR 500666